

07.01-3/31/98-02516



**UNITED STATES MARINE CORPS**

MARINE CORPS BASE  
PSC BOX 20004  
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO:

6287

BEMD

31 MAR 1998

Mr. David Lown  
North Carolina Department of Environment  
and Natural Resources  
Superfund Section  
P. O. Box 27687  
401 Oberlin Road  
Raleigh, North Carolina 27611

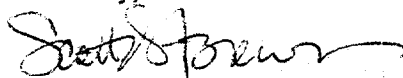
Dear Mr. Lown:

At the request of North Carolina Department of Environment and Natural Resources (NCDENR), enclosed is a signed copy of the Two Year Workplan for Marine Corps Base (MCB), Camp Lejeune's Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Program. The enclosed workplan indicates major milestones covering a two year period of time for Fiscal Years (FY) 1999 and 2000.

Also enclosed is the Cleanup Plan for FY 2001 through 2004. This plan outlines MCB, Camp Lejeune's CERCLA Program for its 42 Installation Restoration Sites grouped in 18 Operable Units.

Point of contact is Mr. Mick Senus, Installation Restoration Division, Environmental Management Department, at telephone (910) 451-5068.

Sincerely,

  
SCOTT A. BREWER, PE  
Deputy Assistant Chief of Staff  
Environmental Management  
By directing of  
the Commanding General

Enclosures: 1. 2 Year Workplan Table  
2. Installation Cleanup Plan for Years FY+3 through FY+6 (FY01-FY04)

Copy to: (w/o encls)  
COMLANTNAVFACENGCOM (K. Landman)



**NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES**  
DIVISION OF WASTE MANAGEMENT



JAMES B. HUNT JR.  
GOVERNOR

WAYNE MCDEVITT  
SECRETARY

WILLIAM L. MEYER  
DIRECTOR

13 April 1998

Commanding General, MCB Camp Lejeune  
Mr. Robert Warren, USMC REC, Region IV  
ATTN: EMD  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Dear Mr. Warren:

North Carolina is preparing to submit to HQUSACE its application for a cooperative agreement with DoD for state fiscal years 1999 and 2000. As per the guidance in the DSMOA, I am furnishing to you read-ahead copies of the 2-Year Workplans, the Installation Cleanup Plans for Years FY+3 through FY+6, and the Budget Information Sheets for the Marine Corps installations in North Carolina: MCB Lejeune, MCAS-Cherry Point, and MCALF Bogue.

The 2-Year Workplans and Installation Cleanup Plans were developed jointly by the state and installation project managers. I used the information from these plans to develop the budgets for state work at each installation. Similar plans and budgets will be furnished to the Army, Air Force, and the USACE for their installations in North Carolina. In addition, the plans and budgets for all services will be furnished to the DoD REC.

Please review these plans and budgets and convey your assessment to HQUSACE. If you have any questions, during or after your review, please call me at 919 733-2801 x.291.

Sincerely,

Grover Nicholson, Head  
Federal Remediation Branch  
NC Superfund Section

Enc

cc: Linda Saksvig



## 2 YEAR WORKPLAN TABLE

Name of Installation, Project, or Operable Unit:

Funding Source:

MCB Camp Lejeune, NCDERA   X   (ER, N)

Service:

BRAC           BRAC II           BRAC III           US Marine CorpsBRAC IV           

List all major milestones occurring at the installation for years 1 and 2.

### YEAR 1 (FY 99)

#### OU#1 (Site 78)

Based on the results of the long term monitoring (LTM) and installation of additional monitoring wells, the pump-and-treat system will be redesigned and modified to increase productivity.

#### OU#2 (Site 9)

Site 9 had a no action ROD signed in 1993; however, the site is an active fire training pit. A design for a new fire training facility using propane instead of waste oil will be prepared, reviewed by the State and constructed. The fire-training construction will be funded by Military Construction (MCON).

#### OU#6 (Site 36)

Remedial Design (RD) for the removal of volatile organic contaminants (VOCs) from groundwater will be completed. The Remedial Action (RA) will be initiated and the LTM plan submitted and implemented.

#### OU#6 (Site 54)

RD for removal of VOCs from groundwater will be submitted. A design for converting the fire training facility from waste oil to propane will be completed. The LTM plan will be submitted and implemented.

#### OU#6 (Site 86)

RD for removal of VOCs from groundwater will be completed and RA initiated. The LTM plan will be submitted and implemented.

#### OU#9 (Site 73)

The construction phase of Remedial Action (RA) for the removing VOCs from groundwater will be completed.

#### OU#10 (Site 35)



Completion of pilot test of air sparging system and RD for the removal of VOCs from groundwater.

OU#12 (Site 3)

RA (soil removal and treatment/disposal) will be completed.

OU#14 (Site 69)

Final ROD and RD will be submitted for removal of VOCs from groundwater.

OU#15 (Site 88)

Completion of surfactant-enhanced aquifer remediation. Final ROD and RD will be submitted.

OU#16 (Sites 89 and 93)

Final ROD and the RD will be submitted.

OU#17 (Sites 90, 91, and 92)

Final ROD and, if appropriate, the RD will be submitted.

OU#18 (Site 94)

Project Plans will be submitted and the RI initiated.

Site 10

The field work for the Site Investigation will be completed.

Sites 84 and 85

Time Critical Removal Actions will be completed.

RCRA Work (SWMU)

Phase II (groundwater) field work will be completed. This is funded by MCB Camp Lejeune.

Small Arms Firing Ranges

It is anticipated that remediation/maintenance of one or two small arms ranges will be completed. This is funded by MCB Camp Lejeune.

Partnering Meetings

Regular team meetings (base, LANTDIV, EPA, NC, contractors) are held approximately every 2 months.

Restoration Advisory Board (RAB) Meetings

The RAB meets quarterly in Jacksonville, NC.



**YEAR 2 (FY 00)**OU#4 (Site 74)

It is anticipated that long-term monitoring (LTM) will be discontinued.

OU#5 (Site 2)

It is anticipated that LTM will be discontinued.

OU#6 (Site 36)

Construction phase of the Remedial Action (RA) for removal of volatile organic compounds (VOCs) from groundwater will be completed.

OU#6 (Site 54)

Construction phase RA for the removal of VOCs from groundwater and the conversion of fire-training facility to propane will be completed. The fire-training facility will be funded by Military Construction (MCON).

OU#6 (Site 86)

Construction phase RA for the removal of VOCs from groundwater will be completed and LTM will be continued.

OU#7 (Site 1)

LTM is anticipated to be discontinued.

OU#7 (Site 28)

LTM is anticipated to be discontinued.

OU#10 (Site 35)

Construction phase of the RA for the removal of VOCs from groundwater will be completed and the LTO will be initiated.

OU#14 (Site 69)

Construction phase of the RA for the removal of VOCs from groundwater will be completed and the LTO will be initiated.

OU#15 (Site 88)

Construction phase of the RA for removal of VOCs from groundwater will be completed.

OU#16 (Sites 89 and 93)

If funding permits, construction phase of the RA will be completed.

OU#17 (Sites 90, 91, and 92)

If required, RD will be submitted and RA initiated.



OU#18 (Site 94)

Remedial Investigation/Feasibility Study (RI/FS) will be continued.

Site 10

RI/FS will be initiated if need.

RCRA Work (SWMU)

RCRA Facility Investigation (RFI) will be initiated for those sites requiring additional work.  
This is funded by MCB Camp Lejeune.

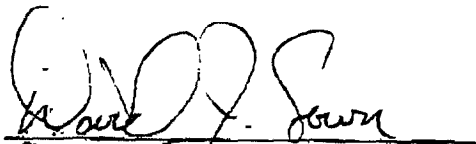
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State Project Manager



Date

3/11/98

DOD Project Manager



Date

11 MARCH 98

Date of Plan or Update

11 Mar 98



**Installation Cleanup Plan for Years FY+3 through FY+6 (FY01-FY04)**  
**MCB Camp Lejeune**

Overview: MCB Camp Lejeune's restoration program is managing the assessment and cleanup of 42 sites grouped into 18 operable units under the CERCLA program. In addition, 51 RCRA SWMUs are currently under investigation. Based on the work plan for FY+1 (FY99) and FY+2 (FY00), it is anticipated that the cleanup status of the installation will be as follows:

- 19 sites will require no further action (Sites 1, 2, 7, 9, 16, 21, 24, 28, 30, 41, 43, 44, 65, 74, 63, 80, 90, 91, 92)
- 4 sites will require long-term monitoring (LTM) (Sites 3, 36, 54, 93)
- 6 sites will require long-term operations (LTO) (Sites 6, 35, 69, 78, 82)
- 2 site will be in the RI/FS stage (Sites 10, 94)
- 5 sites will be in the Remedial Action (RA) stage (Sites 35, 69, 73, 88, 89)
- SWMUs requiring further action will be in the RFI and/or Interim Measures (IM) stage.

Goals: The programs goals for years FY+3 through FY+6 are as follows:

- To protect human health and the environment through LTO and maintenance of institutional controls as required by the RODs.
- To protect human health and the environment through LTM at designated sites.
- To complete RA at 5 sites and begin LTO.
- To ensure the effectiveness of LTO sites.
- To complete the RODs and advance to LTO or LTM for 2 sites.
- To complete Interim Measures at RCRA SWMUs as required.
- To provide opportunities for public involvement through the RAB.

Public Health and the Environment: At the end of FY+6, cleanup actions are expected to have addressed all potential exposures to contaminated media either through completed or ongoing active treatment or through implementation of institutional controls and monitoring.

Summary Status of Cleanup Activity: The majority of cleanup work at the installation is expected to be completed during the FY+3 through FY+6 time frame. Due to expected funding limitations, sites entering FY+3 in the RA stage may require phased implementation of remedial action over several years. Extent of Interim Measures work required at SWMUs is unknown at this time, but it is anticipated that all required Interim Measures will be initiated or completed in this period. At the conclusion of FY+6, it is anticipated that the installation will only have LTM and LTO to perform (i.e. no new investigations or constructions).

State Project Manager *Edward J. Sorn*

Date 3/11/98

DOD Project Manager *MD*

Date 11 MAR 98

Date of Plan or Update 11 Mar 98